



Press Information

Leica Camera AG & pmd Expand Partnership with New 3D Camera

The world's smallest Time-of-Flight (ToF) solution features best ambient light robustness, and highest resolution 3D depth sensing for mobile applications.

Wetzlar, Deutschland, 26.02.2019. Leica Camera AG and pmdtechnologies ag, the leading fabless IC supplier of high-performance Time-of-Flight (ToF) depth sensing solutions, today announced the next milestone of their strategic alliance to jointly develop and market 3D sensing camera solutions for mobile devices. The partnership has created "Holkin", a new reference design specifically developed for mobile applications.

The "Holkin" module uses a Leica lens, which is designed for pmd's latest 3D imager IRS2771C that has been launched at Mobile World Congress 2019. It features a module z-height of 4.2mm and a resolution of HVGA (480 x 320 pixels), making it the smallest 3D camera with the highest resolution on the market today. The module features a superior ambient light robustness for both indoors and outdoors. The Leica lens is optimized for 940nm and the pixels in the imager use pmd's patented SBI (Suppression of Background Illumination).

Marius Eschweiler, Global Director Business Development of Leica Camera AG said: "With over 150 years of experience Leica earned a reputation of being the world's leading company for optical design. By using this expertise Leica is leaping forward into the future and exploring new applications in mobile photography and beyond. Together with our strategic partner pmd we are constantly pushing the boundaries of the innovative ToF technology to achieve the best performance in the most compact form factor."

The highly efficient lens was specifically designed for the requirements of 3D depth sensing. The imaging system is perfectly suited for world-facing as well as for user-facing (selfies) mobile phone integrations. Applications such as secure face unlock, image enhancement or augmented reality are elevated to the next level with the “Holkin” module.

“Based on the close partnership with Leica, we can leverage our optics know-how for best-in-class 3D depth sensing systems. We share a common passion for great engineering work - be it on optics, signal processing software, module or ASIC level,” said Dr. Bernd Buxbaum, CEO of pmdtechnologies ag.

“The collaboration between Leica and pmd has proven that the best-in-class ToF depth systems are achieved by co-designing the depth sensing system and not by piecing together individual components,” said Jochen Penne, Executive Board Member of pmdtechnologies ag.

The partnership is proven to enable a particularly fast, and efficient coordination during development, testing and optimization of the lenses for 3D sensor systems. Leica and pmd are pleased that they will continue to broaden this cooperation.

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About Leica

Leica Camera AG is an internationally operating premium manufacturer of cameras and sport optics products. The Leica legend is founded on the lenses of the long-established company. Together with innovative technologies, they provide for better images in all concerns of vision and perception. Leica Camera AG has its headquarters in Wetzlar, in the state of Hesse in Germany, and a second production site in Vila Nova de Famalicão, Portugal. The company is internationally represented by its subsidiaries and Leica Retail Stores. For more information please visit www.leica-camera.com.

About pmdtechnologies ag

pmdtechnologies ag, a fabless IC company headquartered in Siegen/Germany with subsidiaries in USA, China and Korea, is the worldwide leading 3D Time-of-Flight CMOS-based digital imaging technology supplier. Started up in 2002, the company owns over 350

worldwide patents concerning pmd-based applications, the pmd measurement principle and its realization. Addressed markets for pmd's 3D sensors are industrial automation, automotive and the wide field of consumer applications especially in smartphones. Further information is available at www.pmdtec.com.

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